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Southbridge Historical Society  
Southbridge, Mass. 01550

(Hilltopper)

# COLE TRADE HIGH SCHOOL

## PROGRAM OF STUDIES

1946-1947



SOUTHBIDGE, MASS.

COLE BROS. & CO. NEW YORK

NEW YORK, N. Y.

1891-1892



NEW YORK, N. Y.

## A GOOD INVESTMENT

The citizens of Southbridge, helped by State and National Aid, support this school for the purpose of training youth in the skills and knowledge of a craft of their choice.

The returns from this investment are reflected in the high standards of living and security of employment of those so trained. In turn these values must spread and contribute in many ways to the well-being of all citizens not only in Southbridge but in this State and the United States.



## HISTORY OF THE SCHOOL

This school had its beginning in the thinking and energy of Mr. Albert B. Wells. His influence together with the sympathetic helpfulness of the late Fred E. Corbin, then superintendent of schools, promoted a curriculum of study known as the "Part Time Cooperative" training program which was and now is a means of coordinating school and industry in a common vocational training objective. Although other programs have been added they all supplement the Part Time Cooperative courses which have for thirty-five years proven to be most fitting to the needs of Southbridge.

First established in the Town Hall in 1911, then moved into an addition to the Wells High School, the school is now housed in a memorial building dedicated to the memory of Mr. Robert H. Cole and named the Robert H. Cole Trade School. Truly a fitting and gracious memorial presented to the Town of Southbridge February 7, 1927 by his daughter Miss Ella M. Cole. DEDICATED

The Town of Southbridge bore the expense of the training programs until 1920. At this time the curriculum, teaching staff, and equipment was approved by the State Department of Education as a state-aided school which was henceforth governed under the regulations of the Smith-Hughes Act, a Federal law promoted through the respective states. The acceptance of State supervision provides State aid in the amount of one half the net maintenance cost plus Federal subsidies supplied through other acts. MAY 24, 1927

CHAPTER IV

The first of the two main divisions of the subject is the history of the subject. The second is the present state of the subject. The third is the future of the subject. The fourth is the conclusion.

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The institution of trade and industrial training in 1911 provided courses organized only on a part time cooperative program. This form of a curriculum continued until 1932 when employment opportunities were limited. At this time a Day Trade program was approved which provided opportunity for students to continue their trade training objectives and graduate as a craftsman.

By 1934 the demand for trade training was so great due to the necessity of one having a trade training to be employed, another form of vocational training was instituted known as the general vocational course. This program was conducted in the Trade School building until 1939. The demand had become so great this department was moved to the Mary E. Wells High School building. The continued expansion of the combined vocational training programs brought the total enrollment to 532 in 1942. Because of objections to shop work in the high school the shop activities were moved to the Mechanic St. School in 1942 where they are now housed.

When war seemed imminent in July 1940, Congress provided funds for the training of men and women for war work. This school immediately set up programs which trained more than a thousand people. They came from a large area in the vicinity of Southbridge. Four bus loads a day came from Worcester when the school operated on three eight-hour shifts. These people were taught to do the kind of work done in thirty-four industries in Worcester County and placed in employment with them.





Pre-induction training programs were also organized to train young men and high school students in specific skills prior to entering the armed services. Local high schools and those in neighboring towns took advantage of these programs.

Veteran training has now become a large part of this school's service to the community. While forty veterans are enrolled in various regular courses leading to diplomas, approximately one hundred are enrolled in full time training programs conducted in connection with twenty-three business firms in southern Worcester County.

The name of this school was changed to the Cole Trade High School in November 1945 through the recommendation of the Cole Trade Advisory Committee, the willingness of the heirs of the Robert H. Cole Estate, the action of the Southbridge school committee, and the approval of the State Department of Education. This change permitted the institution of programs of studies which provide for a high school education with a trade training. Three diploma courses are offered, namely: Vocational High School, Trade High School, and Technical High School.

Although this school primarily serves this community in providing trade and industrial training, it is now possible for those students who wish suitable preparation for higher education to get it while they are learning a trade. This provision makes a historical advance by this school in providing educational opportunity in variety and extent comparable to the largest cities in this state. The citizens of Southbridge have good reason to be grateful for the foresight, generosity, and perseverance of those named and unnamed who have contributed to the creation and growth of this institution.



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## OBJECT OF THE SCHOOL

This school was dedicated to train young men for industry. A study of this objective will reveal that the success attained in this endeavor is due to the unusual cooperation between industry, school, student, and taxpayer, all of whom have found mutual benefit through the years. The number of locally trained skilled mechanics employed by local industries, the number of graduates having good jobs, and service ratings, the number owning their homes and operating their own business enterprise all contribute to a prosperous community which provides good business for all its merchants.

From a social standpoint this school is another aid for the people of Southbridge and surrounding communities to better achieve their responsibility as parents and citizens to rear, train and employ its youth. How well this community has met this responsibility in the past is shown by the little use Southbridge had for the government agencies known as the N.Y.A. and the C.C.C.

The object of this school is to serve the needs of the Community. The net cost to Southbridge taxpayers for such a training institution is comparable to all secondary school costs.



## WHOM DOES THE SCHOOL SERVE

The school is open to any person residing in Massachusetts who is fourteen years of age or older and has completed the sixth grade of school.

A person may be admitted at any time and partake of the school facilities so long as he profits by what is offered.

Prescribed courses of study are offered with admission and graduation requirements. Diplomas are awarded for their completion.

General Vocational courses of study are offered as (1) trade preparatory for promotion to specific trade practice; (2) terminal courses for boys who plan to leave school at sixteen years of age.

Special schedules are made for out-of-school people who desire training in specific skills. Employed adults and veterans take advantage of this facility.

Veterans residing outside of this state are eligible for membership in any program. Tuition is charged the Veterans Bureau for services rendered.

Evening courses operate from October to March two to four evenings a week to accommodate (1) employed adults who desire training in new skills and (2) veterans who wish to learn skills pertaining to their present or prospective job.

Veteran training in Southern Worcester County is centered and administered in this school. Two major programs are promoted, (1) a half time employment program which is the regular part time cooperative course schedule of this school. The completion of the course provides the award of a Trade High School Diploma. Income





to veterans in this course include wages and G.I. subsistence amounting to 3000-3500 dollars during the period of training; (2) a full time employment program wherein a veteran serves an apprenticeship in learning a vocation of his choice and receives beginner's wage in addition to G.I. subsistence. The combined income cannot exceed the top wage paid skilled men in the vocation chosen.

In case of a national emergency where men or women must be trained this school is prepared to render immediate service. Its potentiality was demonstrated in training workers for war industries, and young men for military service



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## THE VOCATIONAL HIGH SCHOOL CURRICULUM

This is the most popular course in the school. First, because it provides a high school education together with a vocational training. Second, because all students follow this program for the first two years except the few who expect to take the Technical High School Course.

Seven elective trade subjects are offered. Students should decide by the end of the freshman year in which subject he wants to major the following three years.

Students transferring from other high schools will be given credit for comparable subjects. Transfers may be made at any time since instruction is given on an individual basis. The earlier in the course, however, that transfers are made, the sooner one will graduate. The normal procedure is to enter the freshman year from the eighth grade providing the applicant has reached his fourteenth birthday.

The scholastic award for the satisfactory completion of this course is a "Vocational High School Diploma".

# THE HISTORY OF THE UNITED STATES

The history of the United States is a story of growth and change. It begins with the first settlers, who came to the Americas in search of a new life. They found a land of opportunity, but also a land of challenge. The early years were marked by conflict and struggle, as the settlers fought to establish their communities and defend their rights. Over time, the United States grew from a small colony into a powerful nation. It became a land of freedom and opportunity, where people from all over the world came to seek their fortune. The United States has a rich and diverse history, and it is a country that has made a significant contribution to the world. The story of the United States is a story of hope and dreams, of a people who have fought for their freedom and their future. It is a story that inspires and motivates, and it is a story that we can all be proud of.

THE COLE TRADE HIGH SCHOOL PROGRAM OF STUDIES

VOCATIONAL HIGH SCHOOL COURSES

Four Year Program - Alternate Week Schedule

Shop Practice 50% - Related subjects 27% - Academic subjects 23%

Day Trade Subject Electives

- |                   |                  |
|-------------------|------------------|
| 1. Machine Shop   | 4. Cabinetmaking |
| 2. Sheet Metal    | 5. Patternmaking |
| 3. Electricity    | 6. Drafting      |
| 7. Wood Finishing |                  |

Entrance Requirements

- |                              |                                           |
|------------------------------|-------------------------------------------|
| 1. Completion of 8th grade   | 1. Average grade - 65                     |
| 2. Fourteen years of age     | 2. Three years major in one trade subject |
| 3. Resident of Massachusetts | 3. Minimum points - 80                    |

FRESHMAN YEAR	Pts.	Periods Bi-weekly
English I	4	8
App. Arith.	5	10
App. Science	$2\frac{1}{2}$	5
Mech. Draw. I	$1\frac{1}{4}$	5
Phys. Ed.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Shop Practice I	$\frac{6}{19\frac{1}{4}}$	$\frac{30}{60}$

SOPHOMORE YEAR	Pts.	Periods Bi-Weekly
English II	5	10
App. Math.	5	10
App. Science	$2\frac{1}{2}$	5
Mech. Draw. II	$3\frac{3}{4}$	3
Physical Ed.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Shop Practice II	$\frac{6}{19\frac{3}{4}}$	$\frac{30}{60}$

JUNIOR YEAR	Pts.	Periods Bi-weekly
English III	5	10
App. Math.	$2\frac{1}{2}$	5
App. Science	$2\frac{1}{2}$	5
Mech. Draw. III	2	3
Amer. History	$2\frac{1}{2}$	5
Phys. Ed.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Shop Practice III	$\frac{6}{21}$	$\frac{30}{60}$

SENIOR YEAR	Pts.	Periods Bi-Weekly
English IV	5	10
Applied Math.	$2\frac{1}{2}$	5
Applied Science	$2\frac{1}{2}$	5
Mech. Draw. IV	$2\frac{1}{2}$	5
Eccn. & Social Problems	$1\frac{1}{2}$	3
Phys. Ed.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Shop Practice	$\frac{6}{20\frac{1}{2}}$	$\frac{30}{60}$

THE UNIVERSITY OF CHICAGO

DEPARTMENT OF CHEMISTRY

RESEARCH REPORT

NO. 1000

1950

1. Title	2. Author	3. Date
4. Abstract	5. Summary	6. Introduction
7. Experimental	8. Results	9. Discussion
10. Conclusions	11. References	12. Appendix
13. Tables	14. Figures	15. Notes
16. Bibliography	17. Index	18. Glossary
19. Acknowledgments	20. Distribution	21. Reprints
22. Comments	23. Corrections	24. Addenda
25. Errata	26. Postscript	27. Final Remarks
28. Summary	29. Conclusions	30. References
31. Tables	32. Figures	33. Notes
34. Bibliography	35. Index	36. Glossary
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94. Comments	95. Corrections	96. Addenda
97. Errata	98. Postscript	99. Final Remarks
100. Summary	101. Conclusions	102. References



## THE PART TIME COOPERATIVE CURRICULUM

The existence and growth of this school is due to the co-operative relationship with industry in training the hundreds of craftsmen now enjoying success and security in their elected vocation. To understand and execute with journeyman skill and disciplined performance trade and industrial requirements is a distinct accomplishment. Graduates of those courses become highly selected groups with their services much in demand and with limited competition to meet. They are prepared to enjoy the nice things of life and contribute their share in building and maintaining a prosperous community.

Ten elective trade subjects are offered under this curriculum. It is intended to supply the local needs for craftsmen from graduates of these courses. They all offer an "earn while learning" privilege. The wages paid during the two years employment period amount to approximately twelve hundred dollars. Veterans taking these courses receive their subsistence payments from the Veterans Bureau in addition to the employment wage.

Full credit from other high schools will be given for comparable subjects. Work experience will also be weighed against the required skills.

Students working for certification to schools of higher learning, can meet most requirements by extending their study a half year.

The scholastic award for the satisfactory completion of this curriculum is a "Trade High School Diploma".



A TRADE HIGH SCHOOL COURSE  
IN COOPERATION WITH INDUSTRY

Two year Program  
Two years alternate week schedule

Coop Subject Electives

- |                        |                          |
|------------------------|--------------------------|
| 1. Printing            | 5. Cabinetmaking         |
| 2. Machine Shop        | 6. Patternmaking         |
| 3. Sheet Metal         | 7. Electricity           |
| 4. Factory Maintenance | 8. Painting & Decorating |
| 9. Machine Drafting    |                          |
| 10. Carpentry          |                          |

Entrance Requirements

1. Completion of 10th grade Vocational High Course
2. Sixteen years of age
3. Resident of Massachusetts

Graduation Requirements

1. Average Grade - 75
2. Minimum points - 46
  - a. class - 30
  - b. trade practice - 16

JUNIOR YEAR

July 1 - September 1	Pts.	Periods Bi-weekly
Trade Practice	2	40
Sept. 1 - June 30		
English III	5	10
Trade Math.	2 $\frac{1}{2}$	5
Trade Science I	2 $\frac{1}{2}$	5
Trade Drawing	2	3
American History	2 $\frac{1}{2}$	5
Physical Education	1 $\frac{1}{4}$	1
Assembly	1 $\frac{1}{4}$	1
Trade Practice	8	40
	23	70

SENIOR YEAR

July 1 - Sept. 1	Pts.	Periods Bi-weekly
Trade Practice	2	40
Sept. 1 - June 30		
English	5	10
Trade Math. II	2 $\frac{1}{2}$	5
Trade Science II	2 $\frac{1}{2}$	5
Trade Drawing II	2	3
Econ. & Social Prob.	2 $\frac{1}{2}$	5
Phys. Education	1 $\frac{1}{4}$	1
Assembly	1 $\frac{1}{4}$	1
Trade Practice	8	40
	23	70

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## VOCATIONAL TECHNICAL CURRICULUM

This course is offered boys and girls who have the interest and aptitude to become skilled in the art of machine drawing and design. The successful completion of the course will qualify graduates for positions as machine draftsmen, designers' assistants, assistants to experimental engineers, laboratory assistants, and numerous other positions where planning, checking and research is being done.

While this is a terminal course to prepare for technical employment, it further provides subjects which may be accredited for entrance to technical schools of college or university grade.

Wherein the units earned do not meet fully the entrance requirements of some particular school a post graduate program may be arranged to fulfill the demands.

Since the administration, supervision, and instruction of subject matter is on an individual basis, students may transfer from other high schools at any time and be allowed earned credits that apply. It will be to their advantage however to transfer early rather than late in their course. All students progress according to their respective abilities and work effort. This means that some will finish the course ahead of schedule.

This is the course for the young man or woman who is preparing for a technical career.





## COLE TRADE HIGH SCHOOL PROGRAM OF STUDIES

## VOCATIONAL TECHNICAL CURRICULUM

## Four Year Program - Alternate Week Schedule

Shop Practice 50% - Related Subjects 27% - Academic Subjects 23%

Day Trade Subject - Machine Drafting

Entrance Requirements

1. Completion of 8th grade
2. Fourteen years of age
3. Resident of Massachusetts  
(veterans excepted)
4. Recommendation of Guidance  
Director

Graduation Requirements

1. Average grade - 70%
2. Minimum points req. 80  
(Shop practice 24)
3. Required for certification 80% in accredited  
subjects

## FRESHMAN YEAR

	<u>Pts.</u>	<u>Periods</u> <u>Bi-weekly</u>
English	4	8
Algebra I	$2\frac{1}{2}$	5
App. Science I	$2\frac{1}{2}$	5
Mech. Draw. I	$1\frac{1}{4}$	5
Phys. Educ.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Machine Shop	6	30
App. Arith.	$2\frac{1}{2}$	5
	<u><math>19\frac{1}{4}</math></u>	<u>60</u>

## SOPHOMORE YEAR

	<u>Pts.</u>	<u>Periods</u> <u>Bi-weekly</u>
English	5	10
Algebra	$2\frac{1}{2}$	5
App. Science	$2\frac{1}{2}$	5
Amer. History	4	8
Phys. Educ.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Mach. Draw.	4	18)
Patternmaking	1	6) Shop
Sheet Metal	1	6)
	<u><math>20\frac{1}{2}</math></u>	<u>60</u>

## JUNIOR YEAR

	<u>Pts.</u>	<u>Periods</u> <u>Bi-weekly</u>
English	5	10
Plane Geom.	5	10
App. Science	$1\frac{1}{2}$	3
Algebra II	$2\frac{1}{2}$	5
Physical Educ.	$\frac{1}{4}$	1
Assembly	$\frac{1}{4}$	1
Mach. Draw.	4	18) Shop
Mach. Shop	2	12)
	<u><math>20\frac{1}{2}</math></u>	<u>60</u>

## SENIOR YEAR

	<u>Pts.</u>	<u>Periods</u> <u>Bi-weekly</u>
English	5	10
Solid Geo. & Trig	5	10
Physics	4	8
Assembly	$\frac{1}{4}$	1
Phys. Educ.	$\frac{1}{4}$	1
Mach. Design	5	24) Shop
Mach. Shop	1	6)
	<u><math>20\frac{1}{2}</math></u>	<u>60</u>



## ADULT EDUCATION IN EVENING TRADE EXTENSION PROGRAMS

All persons sixteen years of age and older that reside in Massachusetts are entitled to free membership in any program of study offered by this school. Many people have firmly established themselves on their jobs by getting a training in skills relating to their employment.

A wide variety of subjects are offered. The shop practice subjects are: cabinetmaking, patternmaking, machine shop, sheet metal, and woodfinishing. The class subjects are: shop arithmetic, algebra, geometry, trigonometry, slide rule, mechanical drawing, machine drawing, architectural drawing, blueprint reading, machine design, metallurgy, mechanisms, heat treating of metals, and scientific measurements.

The equipment is quite complete to provide a wide variety of experiences. The tool rooms are equipped with fine hand tools and precision measuring instruments. A new heat treatment and physics laboratory is being set up for operation when the evening classes begin in October.

This school serves employed people who seek training for better jobs, greater security, and more enjoyable living. It is well known that the standards of living in a community rise as people become skilled in their chosen vocation. Statistics reveal that Southbridge rates high in this respect. The Cole Trade High School has much to contribute to the welfare of employed people in this vicinity.

